

Features

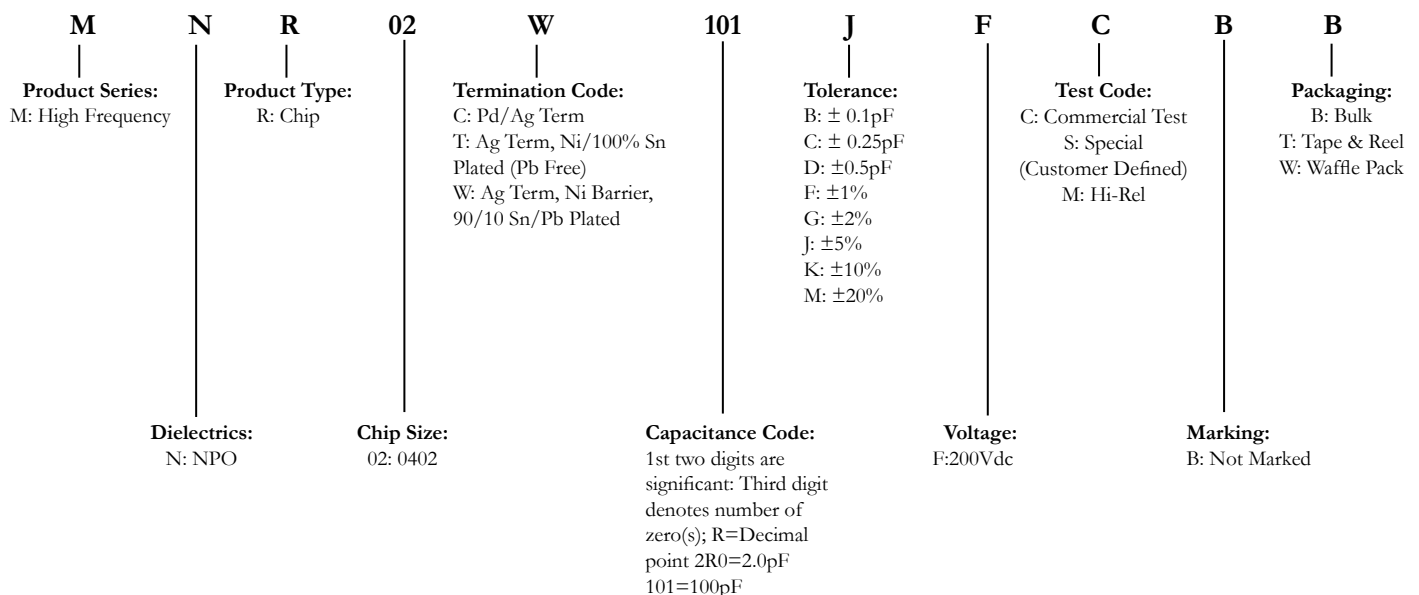
- Capacitance Range: 0.1pF to 27pF
- High Q Low ESR/ESL
- High Power
- Ultra Stable Performance
- High Self-Resonance
- Operating Voltages
 - DC Voltage: 250Vdc



Applications

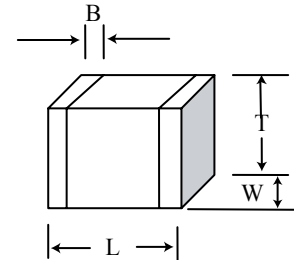
Typical Functional Applications: Bypass, Coupling, Tuning, Feedback, Impedance Matching and DC Blocking. Devices such as RF oscillators and precision timing circuits requiring a predictable temperature coefficient are examples of devices utilizing these capacitors.

AFM Part Number Code



Chip Dimensions

Length	.040 ±.004in (1.02±0.1mm)
Width	.020±.004in (0.51±0.1mm)
Thickness	.024....+.005~--.003in (0.61....+0.13~-0.08mm)
Band	.015in (0.38mm)



Standard Capacitance Values

CAP CODE	CAP (pF)	TOL	RATED WVdc	CAP CODE	CAP (pF)	TOL	RATED WVdc	CAP CODE	CAP (pF)	TOL	RATED WVdc
0R1	0.1	B	200	1R6	1.6	A, B, C, D	200	6R2	6.2	A, B, C, D	200
0R2	0.2			1R8	1.8			6R8	6.8	B, C, J, K	
0R3	0.3	2R0		2.0	7R5			7.5			
0R4	0.4	2R2		2.2	8R2			8.2			
0R5	0.5	A, B, C		2R4	2.4			9R1	9.1	F, G, J, K, M	
0R6	0.6			2R7	2.7			100	10		
0R7	0.7			3R0	3.0			110	11		
0R8	0.8	A, B, C, D		3R3	3.3			120	12		
0R9	0.9			3R6	3.6			150	15		
1R0	1.0			3R9	3.9			180	18		
1R1	1.1	A, B, C, D		4R3	4.3			200	20		
1R2	1.2			4R7	4.7			220	22		
1R3	1.3		5R1	5.1	240	24					
1R5	1.5		5R6	5.6	270	27					

Specification and Performance

Piezoelectric and Aging Effect:	None
Temperature Range:	-55°C to +125°C
Temperature Coefficient of Capacitance:	0±30ppm/°C
Quality Factor (Q) :	2,000 min.
Insulation Resistance (IR, at Rated Voltage):	10 ⁵ MΩ min. at +25°C at rated WVDC 10 ⁴ MΩ min. at +125°C at rated WVDC
Dielectric Withstand Voltage (DWV):	250% of rated WVDC for 5 secs
Capacitance Drift:	±0.02% or ±0.02pF, whichever is greater